

Cement Creek HRS  
Highest Background Value Selected from five Background Locations  
Dissolved Metals – ug/L (ppb)

Field Sample ID: Location:		UASW003 (A68) Animas River upstream of confluence with Cement Creek	UASW005 (CC17) South Fork of Cement Creek	UASW012 North Fork of Cement Creek upstream of the Gold King 7 Level Mine	UASW030 (CC01F) Lower Ross Basin Drainage upstream of Grand Mogul Mine	UASW045 Minnesota Gulch Drainage
Analytes	Highest Selected Background Value					
Dilution Factor						
Aluminum	4280	86.2	720	3820	69.0	4280
Antimony	2.5 U	2.5 U	2.5 U	2.5 U	2.50 U	2.5 U
Arsenic	2.5 U	2.5 U	2.5 U	2.5 U	2.50 U	2.5 U
Barium	30.8	25 U	25 U	25 U	30.8 J	29 J
Beryllium	1.05	0.5 U	0.5 U	0.595 J	0.500 U	1.05
Cadmium	4.69	1.82	2.73	4.69	3.09	3.79
Calcium	162000	54300	162000	52500	46200	52700
Chromium	2.56 J	2.5 U	2.5 U	2.56 J	2.50 U	2.5 U
Cobalt	20.6	0.5 U	7.71	7.94	0.500 U	20.6
Copper	291	2.5 U	8.83	291	25.2	150
Iron	3230	100 U	3230	100 U	100 U	268
Lead	9.44	0.79 J	0.643 J	4.50	0.620 J	9.44
Magnesium	9690	3290	8230	7230	4060	9690
Manganese	1940	1940	1840	742	120	1620
Molybdenum	3.63	3.63	0.535 J	0.5 U	0.500 U	0.5 U
Nickel	13.6	2.5 U	2.5 U	5.44	2.50 U	13.6
Potassium	747 J	614 J	747 J	545 J	294 J	714 J
Selenium	2.5 U	2.5 U	2.5 U	2.5 U	2.50 U	2.5 U
Silver	0.843 J	0.843 J	0.5 U	.50 U	0.500 U	0.5 U
Sodium	3470	2460	3470	2040	1230	1620
Thallium	15.4	15.4	2.5 U	5.00 U	2.50 U	2.5 U
Vanadium	5.0 U	5.0 U	5.0 U	1.00 U	5.00 U	5.0 U
Zinc	924	449	647	924	556	907

J The associated numerical value is an estimated quantity because quality control criteria were not met. Presence of the analyte is reliable.  
U The analyte was not detected above the CRQL.  
µg/L micrograms per liter  
BOLD Background value

Sources: EPA 2008 (CLP limits); EPA 2004 (SCDM); EPA 2008 (Low Concentration Detection Limits)

Cement Creek HRS  
Potential Sources of Contamination  
Dissolved Metals – ug/L (ppb)

Field Sample ID: Location:  Analytes	Upper Gold King 7 Mine adit discharge UAAD002 (CC06)	Red and Bonita Mine adit discharge UAAD003 (CC03C)	Mogul Mine adit discharge UAAD004 (CC02D)	Mogul Mine North UAUSW022 (CC02A)	Grand Mogul Mine UASW059	Queen Anne Mine UASW024 (CC01S)	Columbia Mine no sample	Adelphin Mine no sample	American Tunnel discharge at portal UAAD001 (CC19)
Aluminum	18,300	4620	3300	1430	13200	2180	-	-	4990
Antimony	5 U	5 U	2.5 U	2.5 U	2.50 U	2.5 U	-	-	5 U
Arsenic	5 U	5 U	2.72 J	2.5 U	26.9	2.5 U	-	-	5 U
Barium	50 U	50 U	25 U	39.4 J	25.0 U	34.7 J	-	-	50 U
Beryllium	5.98	6.45	4.49	0.5 U	0.940 J	0.968 J	-	-	3.7
Cadmium	53	48.7	50.9	10.9	105	16.9	-	-	3.02
Calcium	395000	442000	211,000	62000	17400	72,700	-	-	434000
Chromium	5 U	5 U	2.5 U	2.5 U	5.46	2.5 U	-	-	5 U
Cobalt	84.4	102	22.5	0.5 U	25.6	0.5 U	-	-	136
Copper	4210	5 U	20.9	22.3	4690	36.6	-	-	5 U
Iron	71600	101000	27200	100 U	46400	100 U	-	-	133000
Lead	5.66	98.7	255	2.54	33.8	2.21	-	-	1.12 J
Magnesium	22600	28600	13200	8310	12000	9760	-	-	29900
Manganese	27800	30500	29100	111	8740	977	-	-	41700
Molybdenum	1 UJ	1.54 J	1.99 J	0.5 U	0.500 U	0.5 U	-	-	
Nickel	35.4	42.6	8.3	9.47	16.4	12.1	-	-	47.8
Potassium	1790	1840	2000	634 J	362 J	561 J	-	-	1680
Selenium	5 U	5 U	2.5 U	2.5 U	2.50 U	2.5 U	-	-	5 U
Silver	1 U	1 U	0.5 U	0.5 U	0.500 U	0.5 U	-	-	1 U
Sodium	5260	8530	6210	1260	626	1340	-	-	9080
Thallium	5 U	5 U	2.5 U	2.5 U	2.50 U	2.5 U	-	-	5 U
Vanadium	10 U	10 U	5 U	5 U	5.00 U	5 U	-	-	10 U
Zinc	18,600	15400	32700	3080	24900	3230	-	-	18100

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U The analyte was not detected above the CRQL.

µg/L micrograms per liter

TABLE A  
Surface Water Dissolved Metals Analytical Summary  
Concentrations in micrograms per liter (µg/L) parts per billion (ppb)

Field Sample ID: Location:	Highest Selected Background Value	UASW030 (CC01F) Lower Ross Basin Drainage upstream of Grand Mogul Mine (1 of 5 Backgrounds)	UASW059 Cement Creek at the toe of Grand Mogul Mine	UASW024 (CC01S) Drainage from Queen Anne Mine-upstream of Lower Ross Basin	UASW023 (CC01T) Cement Creek upstream of Mogul North Mine & downstream of Lower Ross Basin	UASW022 (CC02A) Mogul Mine North Discharge	UASW021 Cement Creek downstream of Mogul North Mine	UASW020 Cement Creek upstream of Mogul Mine	UASW018 Cement Creek upstream of wetland that contains Mogul Mine drainage	UASW019 Wetlands through which Mogul mine drains to Cement Creek	UASW017 Cement Creek downstream of wetland that channels Mogul Mine drainage	UASW016 (OPP12) Cement Creek upstream of Red and Bonita Mine	UASW015 CC03D Drainage from Red & Bonita Mine before the culvert under the road	UASW014 Cement Creek downstream of Red and Bonita Mine
Aluminum	4280	69.0	13200 ★	2180	1580	1430	1520	996	2830	10100	2570	2480	3040	4980
Antimony	2.5 U	2.50 U	2.50 U	2.5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U	5 U	2.50 U
Arsenic	2.5 U	2.50 U	26.9 ★	2.5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U	5 U	2.50 U
Barium	30.8	30.8 J	25.0 U	34.7 J	29.1 J	39.4 J	26.3 J	25.0 U	25.0 U	25 U	25.0 U	25.0 U	50 U	25.0 U
Beryllium	1.05	0.500 U	0.940 J	0.968 J	0.500 U	0.5 U	0.649 J	0.500 U	0.760 J	3.8	1.08	0.500 U	6.95	3.03
Cadmium	4.69	3.09	105 ★	16.9	13.6	10.9	12.0	8.88	19.2 ★	72.8 ★	15.8 ★	13.7	42.2	25.8 ★
Calcium	162000	46200	17400	72,700	55400	62000	55900	45100	71600	174000	81400	87800	450000	231000
Chromium	2.56 J	2.50 U	5.46	2.5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U	5 U	2.50 U
Cobalt	20.6	0.500 U	25.6	0.5 U	0.500 U	0.5 U	0.500 U	0.500 U	3.02	22.6	2.34	1.83	95.9	46.0
Copper	291	25.2	4690 ★	36.6	102	22.3	105	91.1	240	820	201	140	5 U	121
Iron	3230	100 U	46400 ★	100 U	100 U	100 U	100 U	100 U	413	4460	186 J	210 J	95200	30600 ★
Lead	9.44	0.620 J	33.8 ★	2.21	2.03	2.54	2.62	4.01	11.9	75.6	12.6	7.42	13.1	16.1
Magnesium	9690	4060	12000	9760	7020	8310	7150	5520	6880	13600	6280	6010	28900	15700
Manganese	1940	120	8740 ★	977	633	111	550	306	4040	21900	3370	3000	31900	14900 ★
Molybdenum	3.63	0.500 U	0.500 U	0.5 U	0.500 U	0.5 U	0.500 U	0.500 U	0.500 U	0.5 U	0.500 U	0.500 U	1 U	0.500 U
Nickel	13.6	2.50 U	16.4	12.1	6.06	9.47	6.43	4.42 J	5.71	13.6	4.23 J	3.23 J	38.6	20.2
Potassium	747 J	294 J	362 J	561 J	250 J	634 J	517 J	462 J	593 J	1420	568 J	532 J	1850	920 J
Selenium	2.5 U	2.50 U	2.50 U	2.5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U	5 U	2.50 U
Silver	0.843 J	0.500 U	0.500 U	0.5 U	0.500 U	0.5 U	0.500 U	0.500 U	0.500 U	0.5 U	0.500 U	0.500 U	1 U	0.500 U
Sodium	3470	1230	626	1340	1280	1260	1260	1150	2190	5520	2610	2890	8800	5430
Thallium	15.4	2.50 U	2.50 U	2.5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U	5 U	2.50 U
Vanadium	5.0 U	5.00 U	5.00 U	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U	5.00 U	10 U	5.00 U
Zinc	924	556	24900 ★	3230	2750	3080	2550	1920	5950 ★	27,600 ★	4910 ★	4640 ★	15,500	8770 ★

J The associated numerical value is an estimated quantity because quality control criteria were not met. Presence of the analyte is reliable.  
U The analyte was not detected above the CRQL.  
µg/L micrograms per liter  
BOLD Background value  
★ Elevated Concentration (concentration is > 3X background)

Sources: EPA 2008 (CLP limits); EPA 2004 (SCDM); EPA 2008 (Low Concentration Detection Limits)

TABLE A - continued  
Surface Water Dissolved Metals Analytical Summary  
Concentrations in micrograms per liter (µg/L) parts per billion (ppb)

Sample ID: Location:		UASW013 Cement Creek upstream of the confluence with the North Fork of Cement Creek	UASW012 North Fork of Cement Creek upstream of Gold King 7 Level Mine (1 of 5 backgrounds)	UASW011 North Fork of Cement Creek downstream of Gold King 7 Level Mine	UASW010 North Fork of Cement Creek upstream of confluence with Cement Creek	UASW009 Cement Creek downstream of the confluence with the North Fork of Cement Creek	UASW008 Cement Creek upstream of the American Tunnel	UASW007 (CC18) Discharge from American Tunnel immediately above confluence with Cement Creek	UASW006 Cement Creek downstream of the American Tunnel and upstream of the confluence with the South Fork of Cement Creek	UASW005 (CC17) South Fork of Cement Creek  (1 of 5 backgrounds)	UASW004 Cement Creek downstream of confluence with the South Fork of Cement Creek	UASW058 Cement Creek upstream of the confluence with Dry Gulch drainage	UASW056 Cement Creek downstream of the Dry Gulch drainage
Analytes	Highest Selected Background Value												
Dilution Factor													
Aluminum	4280	3550	3820	18100 ★	23500	7030	7940	5730	9160	720	5130	5510 ★	5440
Antimony	2.5 U	2.50 U	2.5 U	5 U	5 U	2.50 U	2.50 U	5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U
Arsenic	2.5 U	2.50 U	2.5 U	5 U	5 U	2.50 U	2.50 U	5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U
Barium	30.8	25.0 U	25U	50 U	50 U	25.0 U	25.0 U	50 U	25.0 U	25 U	25.0 U	25.0 U	25.0 U
Beryllium	1.05	2.73	0.595 J	7.06 ★	6.34 ★	3.57 ★	2.88	3.54	3.61 ★	0.5 U	2.28	1.52	1.75
Cadmium	4.69	22.0 ★	4.69	53.3 ★	63.7 ★	29.1 ★	28.7 ★	2.54	30.3 ★	2.73	16.1 ★	13.7	12.7
Calcium	162000	210000	52500	388000	348000	230000	238000	450000	258000	162000	202000	182000	178000
Chromium	2.56 J	2.50 U	2.56 J	5 U	5 U	2.50 U	2.50 U	5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U
Cobalt	20.6	36.3	7.94	81.4 ★	83.1 ★	49.2	46.6	136	59.4	7.71	33.0	30.4	30.4
Copper	291	128	291	4580 ★	4230 ★	909 ★	884 ★	5 U	796	8.83	398	366	355
Iron	3230	27700 ★	100 U	66700 ★	52900 ★	31400 ★	30000 ★	131000	32500 ★	3230	16200 ★	15900 ★	16000 ★
Lead	9.44	13.3	4.5	5.66	5.93	14.6	19.3	1.52 J	44.8 ★	0.643 J	25.0	27.9	26.8
Magnesium	9690	14000	7230	22300	24800	15600	16100	31400	18200	8230	13100	12600	12200
Manganese	1940	12800 ★	742	26000 ★	23700 ★	14800 ★	14800 ★	43000	18500 ★	1840	10100 ★	9150 ★	8750 ★
Molybdenum	3.63	0.500 U	0.5 U	1 U	1 U	0.500 U	0.500 U	1 U	0.500 U	0.535 J	0.500 U	0.500 U	0.500 U
Nickel	13.6	16.3	5.44	35.8	39.3	328 ★	20.8	46.9	24.8	2.5 U	14.7	12.6	12.2
Potassium	747 J	874 J	545 J	1790	1430	899 J	926 J	1740	987 J	747 J	933 J	1070	1100
Selenium	2.5 U	2.50 U	2.5 U	5 U	5 U	2.50 U	2.50 U	5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U
Silver	0.843 J	0.500 U	0.5 U	1 U	1 U	0.500 U	0.500 U	1 U	0.500 U	0.5 U	0.500 U	0.500 U	0.500 U
Sodium	3470	4980	2040	5240	5140	4820 ★	5100 ★	9500	5630 ★	3470	4480 ★	4370 ★	4280 ★
Thallium	15.4	2.50 U	2.5 U	5 U	5 U	2.50 U	2.50 U	5 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U
Vanadium	5.0 U	5.00 U	5 U	10 U	10 U	5.00 U	5.00 U	10 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U
Zinc	924	7890 ★	924	17100 ★	16200 ★	9350 ★	9230 ★	18800	10700 ★	647	5510 ★	5130 ★	4850 ★

J  
U  
µg/L  
BOLD  
★

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The analyte was not detected above the CRQL.  
micrograms per liter  
Background value  
Elevated Concentration (concentration is > 3X background)



TABLE A - continued  
Surface Water Dissolved Metals Analytical Summary  
Concentrations in micrograms per liter (µg/L) parts per billion (ppb)

Sample ID: Location:	Highest Selected Background Value	UASW054 Prospect Gulch drainage	UASW050 Cement Creek downstream of the Mammoth Tunnel	UASW049 Cement Creek upstream of the confluence with Fairview Gulch and the Elk Tunnel discharge	UASW047 Cement Creek downstream of the Elk Tunnel and Fairview Gulch	UASW046 Cement Creek upstream of the confluence with Minnesota Gulch drainage	UASW045Minnesot a Gulch drainage 1 of 5 backgrounds)	UASW044 Cement Creek upstream of the Anglo Saxon Mine and downstream of Minnesota Gulch drainage	UASW043 Anglo Saxon Mine drainage	UASW042 Cement Creek downstream of the Anglo Saxon Mine drainage	UASW041 Cement Creek upstream of the confluence with Ohio Gulch drainage	UASW040 Ohio Gulch drainage
Analytes												
Dilution Factor												
Aluminum	4280	14400	8830	8900	8450	8340	4280	8150	225	7870	8090	17100
Antimony	2.5 U	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	5 U	2.50 U	2.50 U	2.5 U
Arsenic	2.5 U	17	4.63 J	5.00 J	3.51 J	2.50 U	2.5 U	2.50 U	5 U	2.50 U	2.50 U	2.5 U
Barium	30.8	25 U	25.0 U	25.0 U	25.0 U	25.0 U	29 J	25.0 U	50 U	25.0 U	25.0 U	25 U
Beryllium	1.05	0.726 J	1.50	1.27	1.44	1.52	1.05	1.32	1.31 J	1.36	1.58	1.72
Cadmium	4.69	5.33	9.70	9.51	8.99	8.60	3.79	9.09	2.1	8.14	8.71	4.41
Calcium	162000	35400	169000	171000	170000	170000	52700	167000	304000	175000	171000	57800
Chromium	2.56 J	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	5 U	2.50 U	2.50 U	2.5 U
Cobalt	20.6	26.1	28.7	29.8	29.4	28.2	20.6	28.9	34.9	25.6	26.7	59.1
Copper	291	190	235	239	225	212	150	212	5 U	191	184	229
Iron	3230	27600	23900 ★	24100 ★	21800 ★	20000 ★	2.68	18200 ★	19300	17100 ★	17200 ★	32700
Lead	9.44	57.3	25.3	25.4	24.7	24.8	9.44	26.0	1 U	24.1	24.5	95.6
Magnesium	9690	7560	11700	11800	11400	11300	9690	11200	18900	11600	11300	12600
Manganese	1940	826	6240 ★	6180 ★	5860 ★	5780	1620	5750	8020	5900 ★	5710	5010
Molybdenum	3.63	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U	0.5U	0.500 U	1 U	0.500 U	0.500 U	0.5 U
Nickel	13.6	19.6	15.2	15.3	14.4	13.2	13.6	14.9	5 U	12.2	12.9	33.2
Potassium	747 J	2130	1700	1720	1680	1660	714 J	1650	2450	1650	1680	1300
Selenium	2.5 U	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	5 U	2.50 U	2.50 U	2.5 U
Silver	0.843 J	0.5 U	0.500 U	0.500 U	0.500 U	0.500 U	0.5 U	0.500 U	1 U	0.500 U	0.500 U	0.5 U
Sodium	3470	1230	3810 ★	3870	3990	4030	1620	4030	9620	4280	4150	2180
Thallium	15.4	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	5 U	2.50 U	2.50 U	2.5 U
Vanadium	5.0 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U	10 U	5.00 U	5.00 U	5 U
Zinc	924	1350	3560 ★	3510 ★	3320 ★	3230 ★	907	3210 ★	2450	3160 ★	3090 ★	1070

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UThe analyte was not detected above the CRQL.

µg/Lmicrograms per Liter

BOLDBackground value

★Elevated Concentration (concentration is > 3X background)

Sources: EPA 2008 (CLP limits); EPA 2004 (SCDM); EPA 2008 (Low Concentration Detection Limits)

TABLE A - continued  
Surface Water Dissolved Metals Analytical Summary  
Concentrations in micrograms per liter (µg/L) parts per billion (ppb)

Sample ID: Location:	Highest Selected Background Value	UASW039 Cement Creek upstream of the Illinois Gulch drainage and downstream of Ohio Gulch drainage	UASW037 Cement Creek downstream of the Illinois Gulch drainage	UASW036 Cement Creek upstream of the Kendrick-Gelder Smelter	UASW035 (CCS*) Cement Creek downstream of the Kendrick- Gelder Smelter	UASW02 Cement Creek immediately upstream of the confluence with the Animas River	UASW003 (A68) Animas River upstream of confluence with Cement Creek (1 of 5 backgrounds)	UASW01 Animas River Downstream of confluence with Cement Creek	UASW34 Animas River upstream of confluence with Mineral Creek	UASW033 (M34) Mineral Creek upstream of confluence with the Animas river	UASW32 Animas River downstream of confluence with Mineral Creek	UASW29 (A72) Animas River most downstream sample location
Analytes												
Dilution Factor												
Aluminum	4280	8320	7580	7800	7890	7810	86.2	7330	530	381	275	1300
Antimony	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Arsenic	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50 U
Barium	30.8	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U	25 U	25.0 U	25.0 U	25.0 U	25.0 U	25.0 U
Beryllium	1.05	0.925 J	0.986 J	0.910 J	1.14	0.826 J	0.5 U	1.17	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	4.69	7.47	7.38	5.87	6.57	6.55	1.82	6.19	2.96	0.926 J	1.76	0.653 J
Calcium	162000	165000	172000	171000	177000	175000	54300	169000	91000	57500	76900	87500
Chromium	2.56 J	2.50 U	2.50 U	2.50 U	2.50 U	2.5 U	2.5 U	2.50 U	2.5 U	2.5 U	2.50 U	2.50 U
Cobalt	20.6	27.3	24.7	23.5	22.3	23.7	0.5 U	20.4	7.33	3.75	6.34	3.84
Copper	291	184	175	146	147	148	2.5 U	121	26.1	2.5 U	13.9	2.50 U
Iron	3230	17600 ★	14800 ★	12200 ★	12000 ★	11500 ★	100 U	10,800 ★	1980	2800	2630	8140
Lead	9.44	25.7	22.4	18.9	17.4	17.8	0.79 J			1.23	0.5 U	
Magnesium	9690	11300	10900	10600	10900	10,900	3290	10400	5630	4860	5720	7330
Manganese	1940	5610	5280	4390	4580	4,650	1940	4760	2560	327	1270	796
Molybdenum	3.63	0.500 U	0.557 J	0.900 U	0.500 U	1.04 J	3.63	0.500 U	0.67 J	0.5 U	0.500U	0.500 U
Nickel	13.6	12.7	11.5	11.7	11.0	10.6	2.5 U	8.46	2.96 J	2.5 U	2.50 U	2.50 U
Potassium	747 J	1680	1580	1780	1840	1790	614 J	1700	1010	629 J	856 J	1620
Selenium	2.5 U	2.50 U	2.50 U	2.50 U	2.50 U	2.50	2.5 U	2.50 U	2.50 U	2.5 U	2.50 U	2.5 U
Silver	0.843 J	0.500 U	0.500 U	0.891 J	0.500 U	0.953 J	0.843 J	0.5 U	0.500 U	0.5 U	0.500 U	0.500 U
Sodium	3470	4090	4310	4460	4550	4540	2460	4450	3150	3300	3570	5580
Thallium	15.4	2.77 J	4.02 J	6.35	2.50 U	5.61	15.4	2.50 U	2.50 U	2.5 U	2.50 U	2.50 U
Vanadium	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U	5.00 U	5 U	5.00 U	5.00 U
Zinc	924	3000 ★	2800 ★	2260	2340	2370	449	2410	1030	185	558	94.6

J  
U  
µg/L  
BOLD  
★

The associated numerical value is an estimated quantity because quality control criteria were not met. Presence of the analyte is reliable.  
The analyte was not detected above the CRQL.  
micrograms per liter  
Background value  
Elevated Concentration (concentration is > 3X background)

Sources: EPA 2008 (CLP limits); EPA 2004 (SCDM); EPA 2008 (Low Concentration Detection Limits)